

510 Hydrated Lime Quality Management Plan

510.1 Introduction.

510.1.1 The purpose of the Hydrated lime Quality Management Plan is to establish the procedures for becoming pre-qualified as a source of hydrated lime by establishing qualified sources and verifying the compliance of materials shipped from these sources with specification requirements.

510.2 Applicable Specifications.

510.2.1 Utah Department of Transportation (UDOT), Standard Specifications.

510.2.2 AASHTO M-303, Lime for Asphalt Mixtures.

510.2.3 ASTM C-110, paragraph 5.4, Standard Test Methods for Physical Testing of Quicklime, Hydrated Lime, and Limestone.

510.2.4 ASTM C-1097, Standard Specification for Hydrated Lime for Use in Asphaltic-Concrete Mixtures.

510.3 Procedure for Establishment as a Qualified Source of Hydrated Lime.

510.3.1 The supplier will request that a producing plant be designated a qualified source by submitting to UDOT's QA Engineer, a letter certifying the following:

510.3.1.1 The supplier maintains a quality control program. The letter will give the name, position, address, and telephone number of an individual at each production location who is responsible to the supplier for quality control of the material being shipped to UDOT projects. It must be signed by someone having legal authority to bind the company.

510.3.1.2 Meets current UDOT specification requirements.

510.3.2 The supplier requesting status as a qualified source agrees to provide the QA Engineer the following:

510.3.2.1 A brief outline of the procedures used to evaluate the finished product, sampling and testing frequency, test sample preparation employed, physical testing and chemical analysis methods used such as X-ray, atomic absorption spectroscopy, or wet chemistry.

510.3.2.2 Access to the supplier's Quality Control (QC) laboratory for the purpose of conducting a laboratory qualification inspection.

510.3.2.3 Hydrated lime for asphaltic mixtures and embankment stabilization, a one year history of the chemical test data showing compliance with AASHTO M-303, Type I and physical test data showing compliance with ASTM C-1097, subparagraph 4.1, using test method ASTM C-110, paragraph 5.4.

510.3.2.4 Twice each month, the supplier's QC lab will ship a split sample to UDOT for correlation testing. Supplier will furnish a complete set of test results on each split sample within seven days of original shipment. The supplier will receive an annual report listing the results of split sample testing for the previous year. Repeated failures in split sample testing may result in the removal of the supplier from UDOT's qualified source listing.

510.3.2.5 Monthly, quality control test results for chemical and physical tests which meet UDOT Standard Specifications requirements.

510.3.2.6 Yearly, a list of distributing terminals and marketing points served by each supplier, i.e. silos, hot mix plants. Include location, address, contact person & phone number.

510.4 Acceptance as a Qualified Source.

510.4.1 Acceptance as a qualified source will be made in writing by the QA Engineer, based on the requirements of this management plan.

510.5 Responsibilities of the Project Engineer.

510.5.1 Request a letter from UDOT's QA section that verifies the hydrated lime to be used on the project is from a pre-qualified source.

510.6 Responsibilities of UDOT's QA Section.

510.6.1 Qualify the source.

510.6.2 Maintain a current file on each source including the required data that is sent.

510.6.3 Conduct verification sampling and testing in accordance with UDOT's "Minimum Sampling and Testing Requirements" guide.

510.7 Supplier Disqualification.

510.7.1 A producing plant may be removed from the list of qualified sources if results of tests of any two consecutive split samples do not comply with the correlation requirements.

510.7.2 A producing plant may be removed from the qualified source list if results from random sample testing do not conform with UDOT standard specifications.

510.7.3 A production plant may also be removed for failure to submit qualifying data every twelve months or as requested.

510.7.4 A supplier may be removed from the qualified source list for failure to maintain all of the requirements necessary to become an approved source.

510.7.5 A supplier will be removed from the qualified source list and be required to re-apply as a qualified source, if not supplying to a UDOT controlled project within a 12 month period.

510.8 Procedures for Reinstatement to Qualified List.

510.8.1 Once a plant is removed from the qualified list as a source of hydrated lime, a producer may gain reinstatement in the following manner:

(a). Submit a written request to the QA Engineer requesting such action. This request shall present reasons why it is to be anticipated that the circumstances that led to removal will not be expected to recur.

(b). If requested, provide the QA Engineer with samples of current production for test and evaluation.

(c). If the data provided indicate the reasons that led to removal are not expected to recur, the QA Engineer will reinstate the plant to the list of qualified sources of hydrated lime in writing.

510.9 Inspection of Supplier, Producer and Contractor Facility.

510.9.1 The manufacturing plant, hot mix plant, project site and terminal facilities of the suppliers participating in this program will be visited periodically by the QA Engineer or representative, to review procedures employed, project requirements, and provide guidance in the functional procedures of the program. They shall be afforded free access to any facility using, producing or testing hydrated lime for UDOT projects.